

## CLAIMS

1           1.       (previously presented) A unitary portable biometrics-based access control  
2 device which can be directly plugged into a universal serial bus (USB) socket  
3 communicatively coupled to a restricted resource, the device comprising:  
4           a housing;  
5           a microprocessor housed within the housing;  
6           a USB plug integrated into the housing without an intervening cable and capable of  
7 coupling the unitary portable access control device directly to the USB socket; and  
8           a biometrics-based authentication module coupled to and controlled by the  
9 microprocessor, at least a portion of the biometrics-based authentication module being  
10 housed within the housing, wherein access to the restricted resource is granted to a user  
11 provided that the biometrics-based authentication module authenticates the user's identity and  
12 wherein access to the restricted resource is denied to the user otherwise.

1           2.       (previously presented) The portable device as recited in Claim 1 wherein the  
2 biometrics-based authentication module is a fingerprint authentication module.

1           3.       (previously presented) The portable device as recited in Claim 1 wherein the  
2 biometrics-based authentication module is an iris scan authentication module.

1           4.       (previously presented) The portable device as recited in Claim 1 wherein the  
2 biometrics-based authentication module comprises a biometrics sensor fitted on one surface  
3 of the housing.

1           5.       (previously presented) The portable device as recited in Claim 1 further  
2 comprising a non-volatile memory capable of storing biometrics information usable for  
3 authentication.

1           6.       (previously presented) The portable device as recited in Claim 1 wherein the  
2       microprocessor is configured to provide a bypass mechanism for authentication upon a  
3       determination of authentication failure by the biometrics-based authentication module.

1           7.       (previously presented) The portable device as recited in Claim 1 wherein the  
2       restricted resource comprises a host computer.

1           8.       (previously presented) The portable device as recited in Claim 1 wherein the  
2       restricted resource comprises a communication network.

1           9.       (previously presented) The portable device as recited in Claim 1 wherein the  
2       restricted resource is a real estate premises that imposes access restrictions.

1           10.      (previously presented) The portable device as recited in Claim 1 wherein the  
2       restricted resource is an operable machinery, the safe operation of which requires training.

1           11.      (previously presented) A biometrics-based access control system for  
2       controlling access to a restricted resource, comprising:  
3           a portable device which can be directly plugged into a universal serial bus (USB)  
4       socket communicatively coupled to the restricted resource and which includes a housing; a  
5       non-volatile memory housed within the housing; a USB plug integrated into the housing  
6       without an intervening cable and capable of coupling the portable device directly to the USB  
7       socket; and a biometrics-based authentication module coupled to the non-volatile memory,  
8       wherein the biometrics-based authentication module is configured to (1) capture a first  
9       biometrics marker; (2) store the first biometrics marker in the non-volatile memory; (3)  
10      capture a second biometrics marker; and (4) determine whether the second biometrics marker  
11      can be authenticated against the first biometrics marker, and wherein access to the restricted  
12      resource is granted upon a determination of successful authentication and wherein access to  
13      the restricted resource is denied otherwise.

1           12.     (previously presented) The biometrics-based access control system as recited  
2     in Claim 11 wherein the biometrics-based authentication module is a fingerprint  
3     authentication module.

1           13.     (previously presented) The biometrics-based access control system as recited  
2     in Claim 11 wherein the biometrics-based authentication module is an iris scan authentication  
3     module.

1           14.     (previously presented) The biometrics-based access control system as recited  
2     in Claim 11 wherein the biometrics-based authentication module comprises a biometrics  
3     sensor which is structurally integrated with the portable device in a unitary construction, the  
4     biometrics sensor being disposed on one surface of the housing of the portable device.

1           15.     (previously presented) The biometrics-based access control system as recited  
2     in Claim 11 wherein the non-volatile memory of the portable device comprises flash memory.

1           16.     (previously presented) The biometrics-based access control system as recited  
2     in Claim 11 wherein a bypass mechanism for authentication is provided upon a determination  
3     of authentication failure by the biometrics-based authentication module.

1           17.     (previously presented) A biometrics-based access control method for  
2     controlling access to a restricted resource and implemented using a portable device, the  
3     method comprising the steps of:

4           (a)     directly plugging the portable device into a universal serial bus (USB) socket  
5     communicatively coupled to the restricted resource, wherein the portable device includes a  
6     housing; a memory; a biometrics sensor; and a USB plug integrated into the housing without  
7     an intervening cable and capable of coupling the portable device directly to the USB socket;

8           (b)     obtaining a first biometrics marker from a user with the biometrics sensor of  
9     the portable device;

10           (c)     retrieving a registered biometrics marker from the memory of the portable  
11 device, the registered biometrics marker having been stored therein during a registration  
12 process;  
13           (d)     comparing the first biometrics marker against the registered biometrics  
14 marker; and  
15           (e)     granting the user access to the restricted resource provided that a match is  
16 identified in said step (d).

1           18.     (previously presented) The biometrics-based access control method as recited  
2 in Claim 17 wherein the registered biometrics marker is a fingerprint.

1           19.     (previously presented) The biometrics-based access control method as recited  
2 in Claim 17 wherein the registered biometrics marker is stored in an encrypted format.

1           20.     (previously presented) The biometrics-based access control method as recited  
2 in Claim 17 further comprising the step of denying the user access to the restricted resource  
3 provided that a match is not identified in said step (d).

1           21.     (previously presented) The biometrics-based access control method as recited  
2 in Claim 17 further comprising the step of providing the user with a bypass authentication  
3 procedure provided that a match is not identified in said step (d).